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Gruver et al.

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(54) **VEHICLE WITH MULTIPLE LIGHT
DETECTION AND RANGING DEVICES
(LIDARS)**

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(57) **ABSTRACT**

A vehicle is provided that includes one or more wheels
positioned at a bottom side of the vehicle. The vehicle also
includes a first light detection and ranging device (LIDAR)
positioned at a top side of the vehicle opposite to the bottom
side. The first LIDAR is configured to scan an environment
around the vehicle based on rotation of the first LIDAR
about an axis. The first LIDAR has a first resolution. The
vehicle also includes a second LIDAR configured to scan a
field-of-view of the environment that extends away from the
vehicle along a viewing direction of the second LIDAR. The
second LIDAR has a second resolution. The vehicle also

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